

A Small Protein That Interacts With A Ribonucleotide  
Reductase Subunit and Uses Thereof

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Abstract of the Disclosure

The present invention provides for an isolated Sml1 protein  
or a homologue thereof. The present invention also provides  
10 for a screening assay for identifying compounds that are  
capable of reducing the division rate of a cell by altering  
an interaction between a ribonucleotide reductase and a Sml1  
protein in the cell, which comprises: (a) contacting the  
cell with a compound, (b) comparing the division rate of the  
15 cell in step (a) with the division rate of the cell in the  
absence of the compound so as to determine whether the  
compound alters the interaction between the ribonucleotide  
reductase and the Sml1 protein of the cell, thereby reducing  
the cell division rate of the cell.

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